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### 1 [On distributed processibility of datalog queries by decomposing databases](#)



Guozhu Dong

June 1989 ACM SIGMOD Record, Volume 18 Issue 2

**Publisher:** ACM

Full text available: [pdf](#) [pdf](#) [1.03](#)



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**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 24, Citation Count: 7

We consider distributed or parallel processing of datalog queries. We address this issue by decomposing databases into a number of subdatabases such that the computation of a program on a database can be achieved by unioning its independent evaluations ...


## 2 Safety of datalog queries over infinite databases



Y. Sagiv, M. Y. Vardi

March PODS '89: Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART  
1989 symposium on Principles of database systems

**Publisher:** ACM

Full text available:  [pdf\(1.15 MB\)](#)

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**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 25, Citation Count: 9

A query is safe with respect to a set of constraints if for every database that satisfies the constraints the query is guaranteed to yield a finite set of answers. We study here the safety problem for Datalog programs with respect to ...

## 3 Recursive Strategies for Answering Recursive Queries - The RQA/FQI Strategy

Wolfgang Nejdl

September VLDB '87: Proceedings of the 13th International Conference on Very  
1987 Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 7


## 4 Logic-based approach to semantic query optimization



Upen S. Chakravarthy, John Grant, Jack Minker

June ACM Transactions on Database Systems (TODS), Volume 15 Issue 2  
1990

**Publisher:** ACM

Full text available:  [pdf\(3.46 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 184, Citation Count: 47

The purpose of semantic query optimization is to use semantic knowledge (e.g., integrity constraints) for transforming a query into a form that may be answered more efficiently than the original version. In several previous papers we described and proved ...


## 5 [Query evaluation techniques for large databases](#)



Goetz Graefe

June ACM Computing Surveys (CSUR), Volume 25 Issue 2  
1993

**Publisher:** ACM

Full text available:  [pdf\(9.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 70, Downloads (12 Months): 822, Citation Count: 202

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

## 6 [A Parallel Processing Strategy for Evaluating Recursive Queries](#)

Louïqa Raschid, Stanley Y. W. Su

August VLDB '86: Proceedings of the 12th International Conference on Very Large  
1986 Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 10


## 7 [Non-deterministic modelling of logical queries in deductive databases](#)



Hussien Aly, Z. Meral Ozsoyoglu

December SIGMOD '87: Proceedings of the 1987 ACM SIGMOD international  
1987 conference on Management of data

**Publisher:** ACM

Full text available:  [pdf\(1.08 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 15, Citation Count: 2

We propose a technique based on Petri Nets formalism to model logic queries in deductive databases. The model is called PNL (Petri Net model for Logic Programs), and it has a simple formal description and a graphical representation. The PNL model explicitly ...

## 8 Necessary and sufficient conditions to linearize doubly recursive programs in



### logic databases

Weining Zhang, Clement T. Yu, Daniel Troy

September 1990 ACM Transactions on Database Systems (TODS), Volume 15 Issue 3

**Publisher:** ACM

Full text available: pdf(1.90 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 41, Citation Count: 6

Linearization of nonlinear recursive programs is an important issue in logic databases for both practical and theoretical reasons. If a nonlinear recursive program can be transformed into an equivalent linear recursive program, then it may be computed ...

**Keywords:** logic database

## 9 An amateur's introduction to recursive query processing strategies



Francois Bancilhon, Raghu Ramakrishnan

June 1986 ACM SIGMOD Record, Volume 15 Issue 2

**Publisher:** ACM

Full text available: pdf(3.48 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 137, Citation Count: 168

This paper surveys and compares various strategies for processing logic queries in relational databases. The survey and comparison is limited to the case of Horn Clauses with evaluable predicates but without function symbols. The paper is organized in ...

## 10 Learning efficient query processing strategies



Russell Greiner

July 1992 PODS '92: Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems

**Publisher:** ACM

Full text available: pdf(1.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 19, Citation Count: 0

A query processor QP uses the rules in a rule base to reduce a given query to a series of attempted retrievals from a database of facts. The Qp's expected cost is the average time it requires to find an answer, averaged over its anticipated ...

## 11 Bounded arity Datalog ( $\neq$ ) queries on graphs



Foto N. Afrati

May PODS '94: Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART  
1994 symposium on Principles of database systems

**Publisher:** ACM

Full text available: [pdf1858.93](#)  
[KB1](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 18, Citation Count: 1

We show that there are Datalog( $\neq$ ) queries on graphs (i.e., the extensional database contains a single binary relation) that require recursively defined predicates of arbitrarily large width. More specifically, ...

## 12 An approach to the recursive retrieval problem in the relational database



F.-Y. Kuo, J. Tillquist

February 1989 Communications of the ACM, Volume 32 Issue 2

**Publisher:** ACM

Full text available: [pdf1857.89](#)  
[KB1](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 28, Citation Count: 2

The host query language often impairs data retrieval in recursive database structures. Functional extensions to QUEL are explored in order to simplify the user interface.

## 13 Non-deterministic modelling of logical queries in deductive databases



Hussien Aly, Z. Meral Ozsoyoglu

December 1987 ACM SIGMOD Record, Volume 16 Issue 3

**Publisher:** ACM

Full text available: [pdf11.08](#)  
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Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 15, Citation Count: 2

We propose a technique based on Petri Nets formalism to model logic queries in deductive databases. The model is called PNLP (Petri Net model for Logic Programs), and it has a simple formal description and a graphical representation. The PNLP model explicitly ...

**14** [Modelling Non Deterministic Queries and Updates in Deductive Databases](#)

Christophe de Maindreville, Eric Simon

August 1988 VLDB '88: Proceedings of the 14th International Conference on Very Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 17

**15** [A Parallel Strategy for Transitive Closure using Double Hash-Based Clustering](#)

Jean-Pierre Cheiney, Christophe de Maindreville

August 1990 VLDB '90: Proceedings of the 16th International Conference on Very Large Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

**16** [On compile-time query optimization in deductive databases by means of static filtering](#)



Michael Kifer, Eliezer L. Lozinskii

September 1990 ACM Transactions on Database Systems (TODS), Volume 15 Issue 3

**Publisher:** ACM

Full text available: [!\[\]\(097cdd6c9c875b64d9b8c9a2409491c4\_img.jpg\) pdf\(3.49 MB\)](#)

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**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 58, Citation Count: 3

We extend the query optimization techniques known as algebraic manipulations with relational expressions [48] to work with deductive databases. In particular, we propose a method for moving data-independent selections and projections into recursive axioms, ...

**Key words:** dataflow, deductive databases, filtering, fixpoint, graph representation, inference, projection, recursive rules, selection

### 17 Optimization of object-oriented recursive queries using cost-controlled strategies



Rosana S. G. Lanzelotte, Patrick Valduriez, Mohamed Zaït

June SIGMOD '92: Proceedings of the 1992 ACM SIGMOD international conference  
1992 on Management of data

**Publisher:** ACM

Full text available: pdf(1.07



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**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 24, Citation Count: 7

Object-oriented data models are being extended with recursion to gain expressive power. This complicates the optimization problem which has to deal with recursive queries on complex objects. Because unary operations invoking methods or path expressions ...

### 18 Query evaluation under the well-founded semantics



Weidong Chen, David S. Warren

August PODS '93: Proceedings of the twelfth ACM SIGACT-SIGMOD-SIGART  
1993 symposium on Principles of database systems

**Publisher:** ACM

Full text available: pdf(1.13



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**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 30, Citation Count: 11

SLD resolution with negation as finite failure (or SLDNF) reflects the procedural interpretation of Horn-clause predicate logic as a programming language and forms the computational basis for prolog systems. Despite its advantages in memory management, ...

### 19 Efficient Implementation of Loops in Bottom-Up Evaluation of Logic Queries

Juhani Kuittinen, Otto Nurmi, Seppo Sippu, Eljas Soisalon-Soininen

August VLDB '90: Proceedings of the 16th International Conference on Very Large  
1990 Data Bases

**Publisher:** Morgan Kaufmann Publishers Inc.

Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 1


## 20 [Compiling query constraints \(extended abstract\)](#)



Peter J. Stuckey, S. Sudarshan

May PODS '94: Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART  
1994 symposium on Principles of database systems

**Publisher:** ACM

Full text available:  [pdf11.24](#)

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Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index](#)

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**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 19, Citation Count: 7

We present a general technique to push query constraints (such as  $\text{length} \leq 1000$ ) into database views and (constraint) logic programs. We introduce the notion of parametrized constraints, which help us push constraints with argument ...

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